

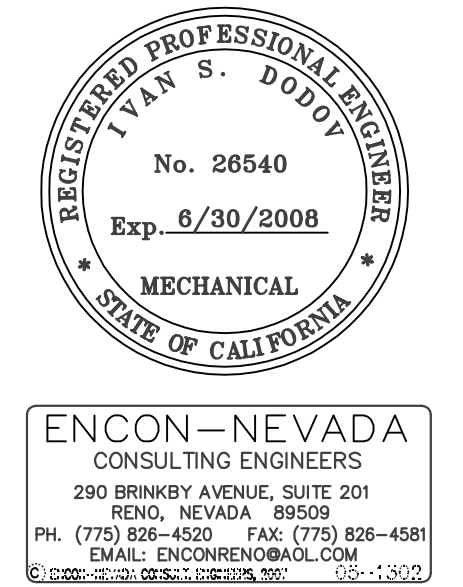
HVAC SPECIFICATIONS

1. CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES, PAY FEES, AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS SHOWN AND/OR SPECIFIED.
2. ALL WORK SHALL COMPLY WITH LATEST EDITIONS AS ADOPTED BY GOVERNING AUTHORITY OF THE UNIFORM MECHANICAL CODE, THE UNIFORM PLUMBING CODE, ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND REQUIREMENTS.
3. ASBESTOS PRODUCTS OR EQUIPMENT OR MATERIALS CONTAINING ASBESTOS SHALL BE PROHIBITED.
4. COMPLY WITH ALL OF THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF THE MANUALS PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA).
5. CONTRACTOR SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR INSTALLATION AND OPERATION OF MECHANICAL ITEMS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY CONDITION WHICH (1) MAY IMPAIR THE FUNCTIONING OF EQUIPMENT OR VOID THE MANUFACTURER'S WARRANTY AND (2) CONFLICTS WITH LOCAL REGULATIONS/CODES.
6. TESTS AND ADJUSTMENTS
 - A. ADJUST AIR SYSTEM TO OBTAIN UNIFORM TEMPERATURES AND TO ELIMINATE DRAFTS.
7. PROVIDE ONE (1) OPERATING MANUAL HAVING FOR EACH AND EVERY PIECE OF EQUIPMENT FURNISHED COPIES OF ALL OPERATING INSTRUCTIONS, BULLETINS, OPERATING SHEETS AND PARTS SHEETS; AND CERTIFICATES OF WARRANTY AND/OR GUARANTEE WITH ALL NECESSARY INFORMATION FILLED IN COMPLETELY.
8. PROVIDE ONE (1) SET OF RECORD DRAWINGS SHOWING ACCURATE AS-BUILT WORK IN A NEAT MANNER. RECORD LOCATIONS OF UNDERGROUND PIPING, BOTH INSIDE AND OUTSIDE OF BUILDING, BY INVERT ELEVATION AND DIMENSION TO FOUNDATION WALLS AND FINISHED FLOOR/GRADE ELEVATIONS.
9. PROVIDE PERSONAL WRITTEN GUARANTEE AGAINST FAULTY WORKMANSHIP AND MATERIAL, GOOD FOR ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.
10. ELECTRICAL REQUIREMENTS: WORK UNDER THIS DIVISION OF THE SPECIFICATIONS
 - A. MATERIALS AND INSTALLATION SHALL CONFORM TO DIVISION 16, ELECTRICAL.
 - B. MOTORS SHALL BE DESIGNED SPECIFICALLY FOR THE VOLTAGE PROVIDED. BUILT-IN OVERLOAD PROTECTION AND DISCONNECT SWITCH ON ALL EXHAUST FANS AND PACKAGED EQUIPMENT SHALL BE PROVIDED.
 - C. FURNISH AND INSTALL ALL MISCELLANEOUS THERMOSTATS, RELAYS, SWITCHES AND CONTROLS FOR PROPER OPERATION OF SYSTEMS.
 - D. SUPERVISE INSTALLATION OF ALL POWER WIRING (LINE VOLTAGE) REQUIRED FOR THE SYSTEMS.
 - E. ALL LINE VOLTAGE (120V) AND LOW VOLTAGE (24V AND BELOW) CONTROL AND INTERLOCK WIRING. INSTALL ALL CONTROL WIRING IN CONDUIT OR EMT. CONDUIT AND WIRING INSTALLATION SHALL CONFORM TO DIVISION 16, ELECTRICAL.
11. RELATED WORK UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS
 - A. ALL LINE VOLTAGE (120 VOLTS AND ABOVE) POWER WIRING, CONDUIT AND CONNECTIONS FOR POWER SUPPLY TO MECHANICAL EQUIPMENT (MOTORS, ELECTRIC HEATING ELEMENTS, ETC.) AND TO CONTROL PANELS, EQUIPMENT CONTROLS OR TO JUNCTION BOXES IN THE VICINITY OF CONTROL CIRCUITS REQUIRING A SEPARATE POWER SUPPLY.
 - B. FURNISH AND INSTALL MAGNETIC AND MANUAL STARTERS, EXCEPT AS FURNISHED AS PART OF EQUIPMENT PACKAGE.
12. DUCTWORK:
 - A. MATERIALS SHALL BE GALVANIZED STEEL OF GAGES CONFORMING TO SMACNA STANDARDS FOR 2" STATIC, EXCEPT THAT EXHAUST DUCT SHALL CONFORM FOR 1/2" STATIC PRESSURE.
 - B. ALL SIZES SHOWN ON THE DRAWINGS ARE NET AIR PASSAGE SIZES.
 - C. ROUND DUCTWORK MAY BE USED IN LIEU OF RECTANGULAR DUCTS SHOWN.
 - D. DUCTWORK SHALL BE SUPPORTED AND BRACED ACCORDING TO SMACNA DUCT MANUAL WITH STRAP-TYPE DUCT HANGERS.
 - E. WHEREVER OBSTRUCTIONS REQUIRE CHANGES IN DUCT SHAPES, MAINTAIN EQUIVALENT AREA.
 - F. PROVIDE MANUAL VOLUME DAMPERS AS SHOWN ON PLANS AND INCLUDING IN EACH BRANCH TO A SUPPLY AND RETURN REGISTER OR GRILLE. FOR ROUND DUCTS, PROVIDE BUTTERFLY DAMPER. FOR RECTANGULAR DUCTS, PROVIDE OPPOSED BLADE DAMPER.
FOR DUCTS IN NON-ACCESSIBLE AREAS PROVIDE VENTLOK #677 CONCEALED DAMPER OPERATOR, CHROME PLATED COVER, ALL ITEMS COMPLETE WITH END BEARINGS, EXTENSIONS, COUPLINGS, GEAR ANGLE DRIVES, ETC.
FOR DUCTS IN OTHER AREAS PROVIDE VENTLOK #637 FOR DUCTS WITH INSULATION AND #635 FOR NON-INSULATED DUCTS, ALL WITH #636 SPRING END BEARINGS.
13. NOT USED
14. LOW VELOCITY FLEXIBLE DUCTWORK: CONTRACTOR MAY USE FLEXIBLE DUCTWORK TO CONNECT SYSTEM TO THE SUPPLY DIFFUSERS ONLY. MAXIMUM LENGTH OF FLEX DUCT IN ANY RUN IS 5'-0". FLEXIBLE DUCT SHALL BE U.L. LISTED AND LABELLED AS A CLASS 1 AIR DUCT PER STANDARD UL-181.
15. FLEXIBLE CONNECTIONS: SUPPLY AND RETURN DUCT SHALL BE CONNECTED TO THE EQUIPMENT BY MEANS OF A FLEXIBLE CONNECTION, VENTFABRICS 'VENTGLAS', UL APPROVED WITH METAL ATTACHMENT OR OTHER APPROVED MATERIAL.
16. FILTERS: SUPPLY AIR SHALL BE FILTERED BEFORE ENTERING OCCUPIED AREA. WHERE FILTERS ARE NOT INTEGRAL TO EQUIPMENT, PROVIDE 1" THROWAWAY FILTERS IN SHEET METAL FILTER RACK FABRICATED PER SMACNA STANDARDS.
17. INSULATION:
 - A. ALL INSULATION MATERIALS, ADHESIVES, COATINGS AND OTHER ACCESSORIES SHALL HAVE, AS INSTALLED, A FIRE HAZARD RATING NOT TO EXCEED 25 FOR FLAME SPREAD AND 50 FOR FUEL CONTRIBUTED AND SMOKE DEVELOPED AS DETERMINED BY ASTM 84, NFPA NO. 255 OR UL 723. MANUFACTURER'S: MANVILLE, OWENS-CORNING FIBERGLAS, CSG OR EQUAL. THE APPLICATION RECOMMENDATIONS AND INSTRUCTIONS OF THE MANUFACTURER ARE OF THE ESSENCE OF THIS SPECIFICATION AND ARE INCORPORATED HEREIN BY REFERENCE.
 - B. MATERIALS
 1. DUCT WRAP: FLEXIBLE GLASS FIBER BLANKET INSULATION WITH FACTORY APPLIED VAPOR BARRIER FOIL FACING. MANVILLE "MICROLITE" (1.0 PCF) WITH FSK FACING.
 2. DUCT LINER: FLEXIBLE FIBERGLASS DUCT LINER HAVING AIR STREAM SURFACE PROTECTED WITH ACRYLIC TREATMENT AND PROCESSED FOR A DARK APPEARANCE. MANVILLE "PERMACOTE LINACoustic".
 - C. INSULATION SCHEDULE:
 1. SUPPLY AND RETURN DUCTWORK: 2" THICK WHERE OUTSIDE OF BUILDING INSULATION ENVELOPE OTHERWISE 1" THICK. INSTALL LINER WITHIN 10' OF AIR MOVING EQUIPMENT OTHERWISE INSTALL DUCT WRAP.

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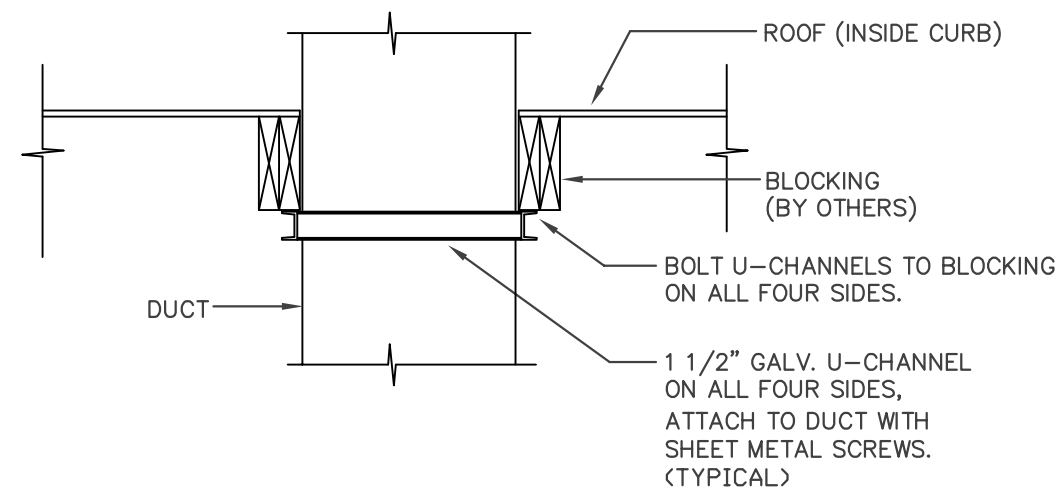
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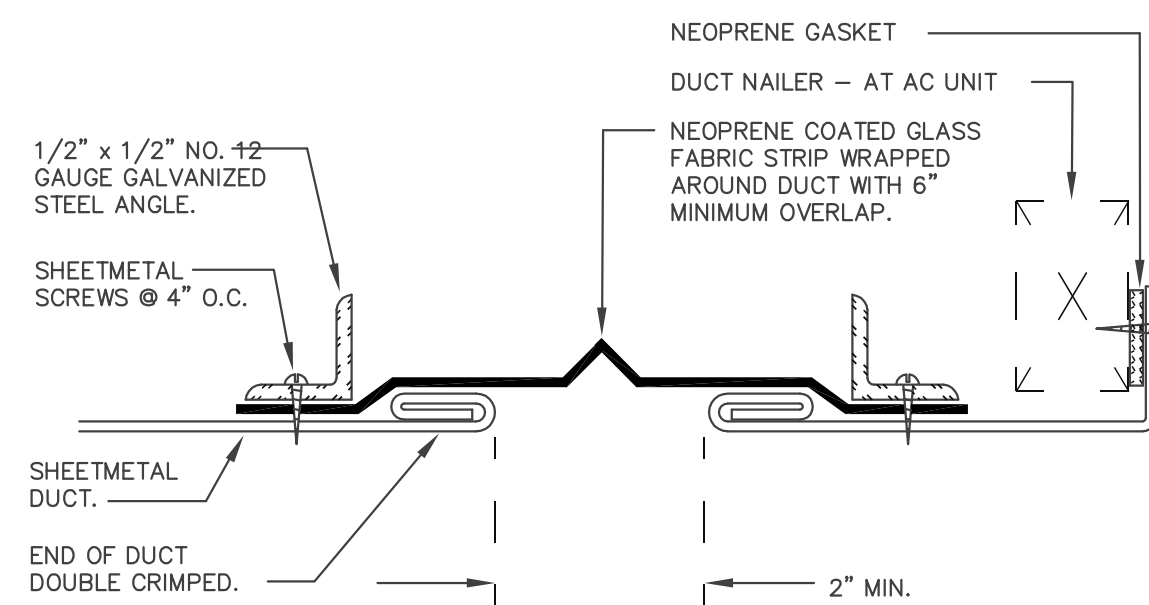
MECHANICAL SPECIFICATIONS



DUCT SUPPORT AT ROOF

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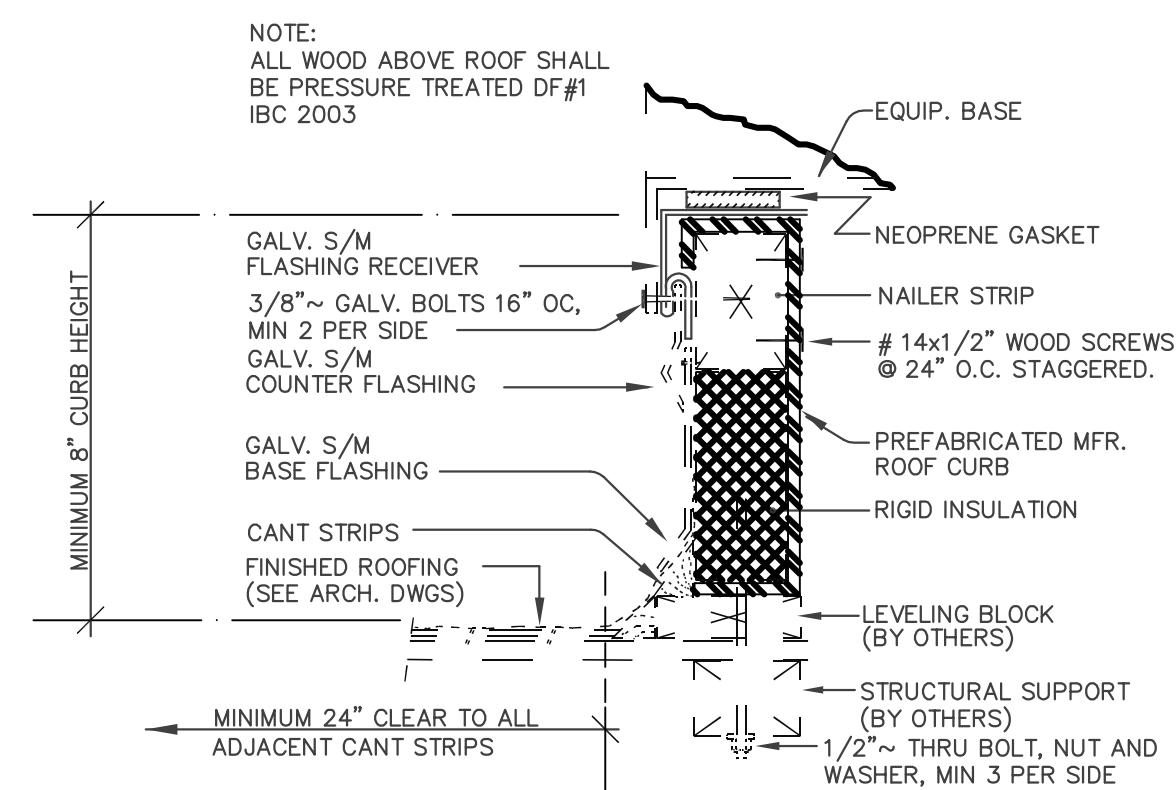
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FLEXIBLE CONNECTION DETAIL

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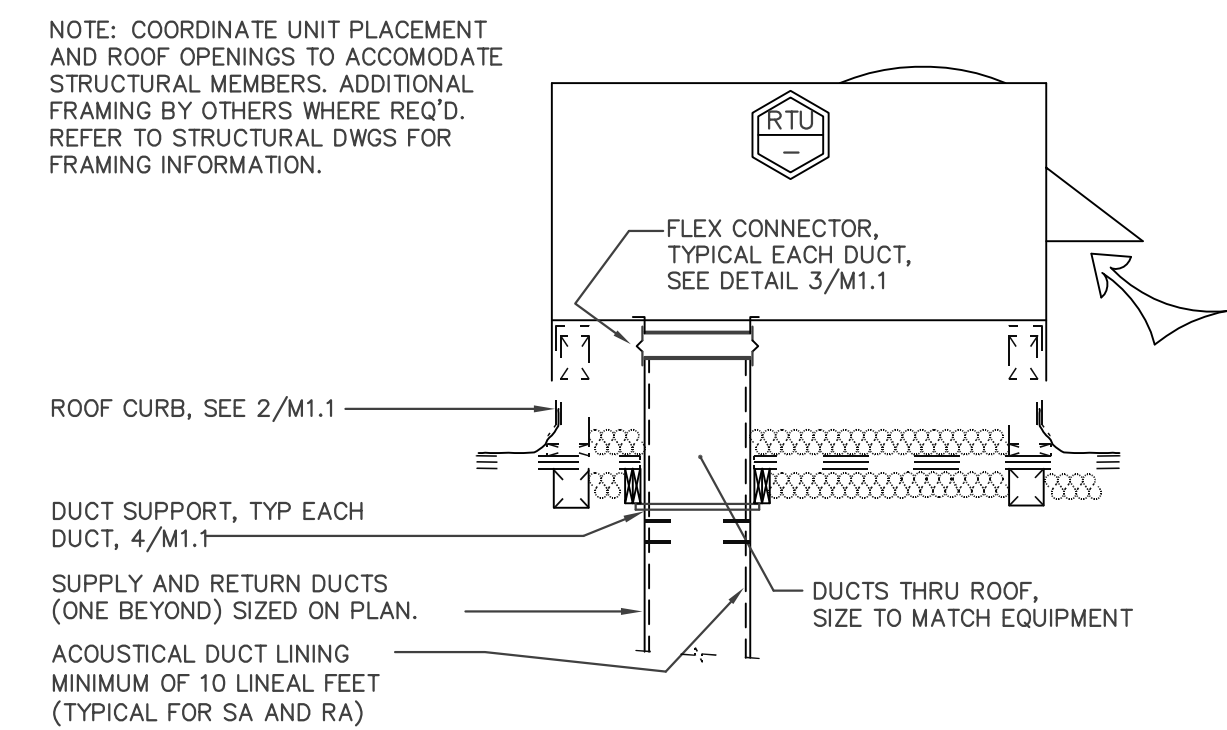
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TYPICAL ROOF CURB

N.T.S.

2



RTU UNIT INSTALLATION

N.T.S.

1

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MARK	DATE	DESCRIPTION
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MECHANICAL DETAILS

SHEET **M1.1** OF **3**

MECHANICAL EQUIPMENT SCHEDULE	
MARK	SPECIFICATIONS
<div style="border: 1px solid black; padding: 5px; width: 40px; margin: 0 auto;">RTU 1</div>	<div style="display: flex; justify-content: space-between;"><div style="width: 30%;"><p>GAS/ELECTRIC ROOFTOP UNIT MFR.: CARRIER NOMINAL TONS: 6 QTY.: 1</p></div><div style="width: 30%;"><p>MODEL NO.: 48HJ007 O.A.: SEE SCHEDULE SEER: 10.0</p></div><div style="width: 30%;"><p>LOCATION: ROOF SERVICE: OFFICE AREA</p></div></div> <p>CAPACITY: 2400 CFM @ 1.20" S.P., 6 TONS COOLING, 115 (92) MBH PROPANE GAS INPUT (OUTPUT)—TWO STAGE HEAT</p> <div style="border: 1px dashed black; border-radius: 15px; padding: 5px; text-align: center; margin: 10px 0;">UNIT PERFORMANCE SHALL BE SELECTED @ 7,000 FT ELEVATION. ⚠</div> <p>ELECTRICAL: 460V/3~/60HZ, 15.2 MCA, 20.0 MOCB ACCESSORIES: BELT DRIVE SYSTEM, O.A. HOOD, FACTORY CURB, FILTER RACK, PROPANE CONVERSION KIT, TIME GUARD II, LOW AMBIENT CONTROLS, DISCONNECT SWITCH, ELECTRONIC PROGRAMMABLE THERMOSTAT.</p> <p>OP. WEIGHT: 600 lbs. NOTE: PROVIDE SMOKE DETECTOR AND AUTO SHUTOFF IN THE MAIN SUPPLY AIR DUCT. SET MINIMUM O.A. PER SCHEDULE.</p>
<p>NOTE: PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS (i.e., VOLTAGE, ETC.) WITH ELECTRICAL CONTRACTOR IN ORDER TO INSURE COMPATIBILITY BETWEEN AC MOTORS AND AVAILABLE POWER.</p>	<p>NOTE: SITE ELEVATION IS 4400' ABOVE SEA—LEVEL. DE-RATE EQUIPMENT ACCORDINGLY AND PROVIDE ANY MANUFACTURER RECOMMENDED ACCESSORIES FOR THIS ELEVATION.</p> <p>NOTE: INSTALL EQUIPMENT IN COMPLETE ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.</p> <p>NOTE: SCHEDULED E.S.P EXCLUDES ALL ACCESSORY ITEMS. ADJUST FAN T.S.P. ACCORDINGLY</p>

MECHANICAL LEGEND				
	DUCT, FIRST SIZE IS SIDE SHOWN	~	RD	ROUND
	SUPPLY / RETURN DUCT UP	ℳ	CFM	CUBIC FEET PER MINUTE
	SUPPLY / RETURN DUCT DOWN		CA	COMBUSTION AIR
	CEILING DIFFUSER		OSA	OUTSIDE AIR
	CEILING RETURN		SA	SUPPLY AIR
	CEILING EXHAUST FAN		RA	RETURN AIR
	CEILING EXHAUST FAN		EXA	EXHAUST AIR
	VD		F.B.	FROM BELOW
	FLEX.D.		T.A.	TO ABOVE
	T'STAT			
	SENSOR			
	FLEXIBLE DUCT			
	THERMOSTAT			
	ROOM SENSOR			

FRESH AIR BALANCE SCHEDULE				
MARK	AREA SERVED	TOTAL CFM	FRESH AIR CFM	
			.15CFM/SF	TOTAL
RTU-1	OFFICE SPACE	2400	2200	330

AIR OUTLETS SCHEDULE								
SYMBOL	MANUFACTURER	MODEL#	SIZE		PATTERN	OBD	FINISH	REMARKS
			NECK	FACE				
①	METALAIRE	5000-2	6" x 6"	8" x 8"	4-WAY	YES	STD. WHITE	SURFACE MOUNT
②	METALAIRE	5000-2	8" x 8"	10" x 10"	4-WAY	YES	STD. WHITE	SURFACE MOUNT
③	METALAIRE	5000-2	10" x 10"	12" x 12"	4-WAY	YES	STD. WHITE	SURFACE MOUNT
④	METALAIRE	5000-2	12" x 12"	14" x 14"	4-WAY	YES	STD. WHITE	SURFACE MOUNT
⑤	NOT USED							
⑥	METALAIRE	RP	10" x 10"	12" x 12"	PERF RTN	NO	STD. WHITE	SURFACE MOUNT
⑦	METALAIRE	RP	18" x 18"	20" x 20"	PERF RTN	NO	STD. WHITE	SURFACE MOUNT

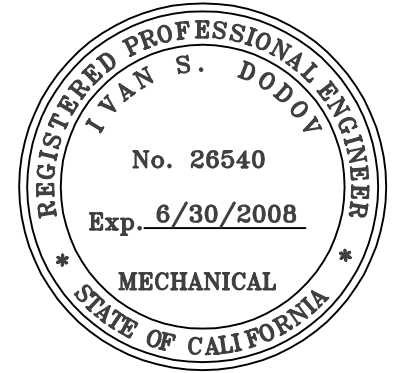
NOTES:

- NOT USED
- ROUND NECK ADAPTER (WHERE APPLICABLE) SHALL BE ONE SIZE LARGER THAN BRANCH DUCT SIZE INDICATED ON PLAN.
- VERIFY CEILING WITH ARCHITECT AND PROVIDE FRAME TO MATCH CEILING.
- PROVIDE HARD CEILING FRAME (AS APPLICABLE).

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	2/26/08 PER PLAN CHECK COMMENTS
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PROJECT NO:	07-1303-M
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DATE:	06-27-07
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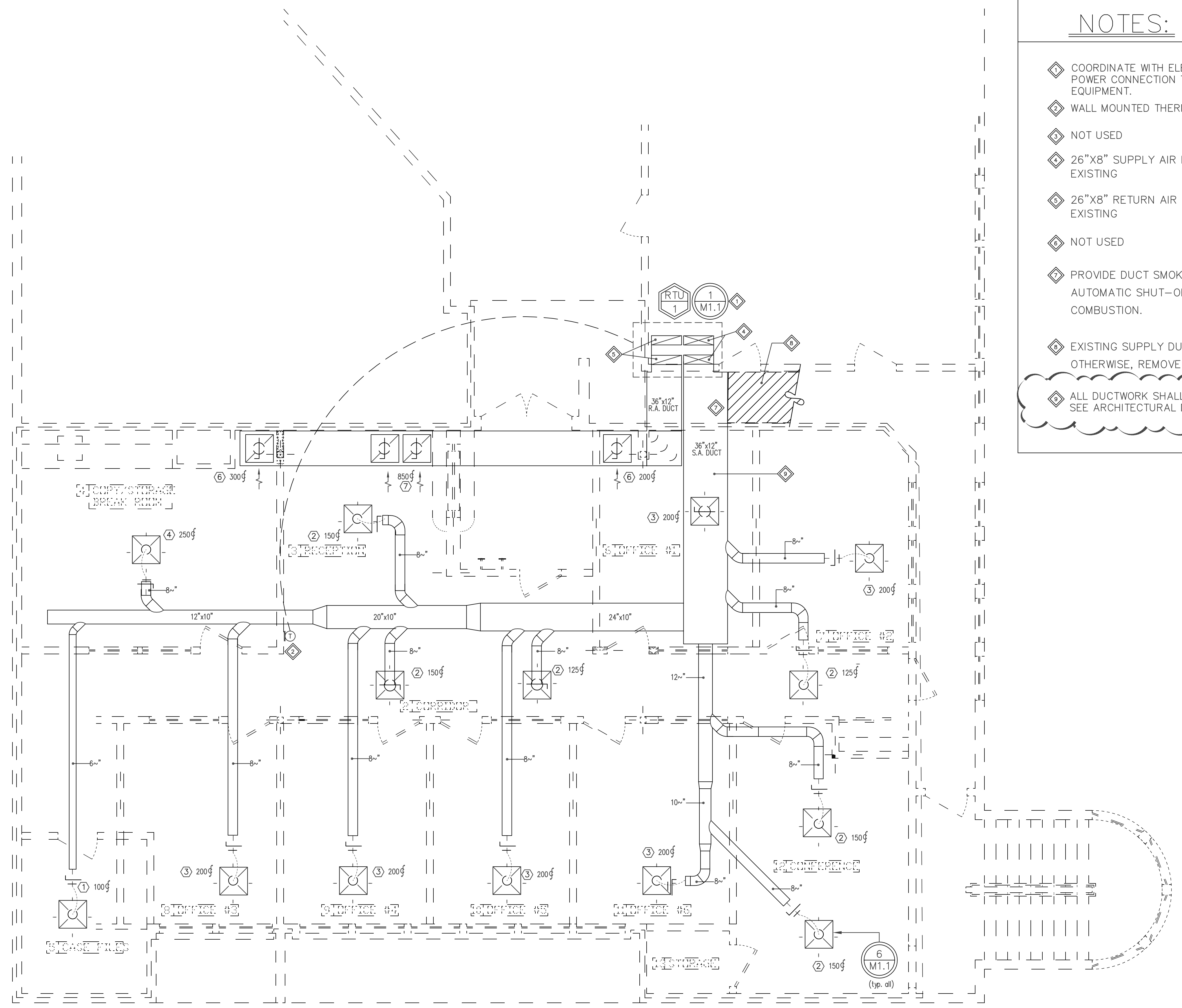
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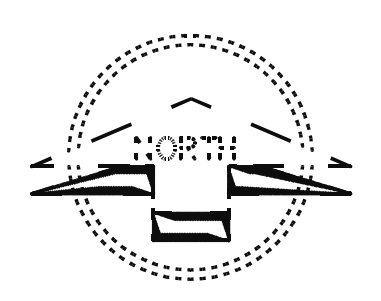
MECHANICAL SCHEDULE

SHEET **M2.0** OF **3**



NOTES:

- COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL MECHANICAL EQUIPMENT.
- WALL MOUNTED THERMOSTAT AT 60" AFF.
- NOT USED
- 26"X8" SUPPLY AIR DUCT UP THRU ROOF TO RTU UNIT. EXISTING
- 26"X8" RETURN AIR DUCT UP THRU ROOF TO RTU UNIT. EXISTING
- NOT USED
- PROVIDE DUCT SMOKE DETECTOR, AT SUPPLY AIR PLENUM FOR AUTOMATIC SHUT-OFF UPON DETECTION OF PRODUCTS OF COMBUSTION.
- EXISTING SUPPLY DUCT UTILIZE IF POSSIBLE, OTHERWISE, REMOVE AND INSTALL NEW DUCTS AS SHOWN.
- ALL DUCTWORK SHALL BE INSTALLED UNDER THE 1 HOUR FIRE SEPARATION. SEE ARCHITECTURAL DETAIL

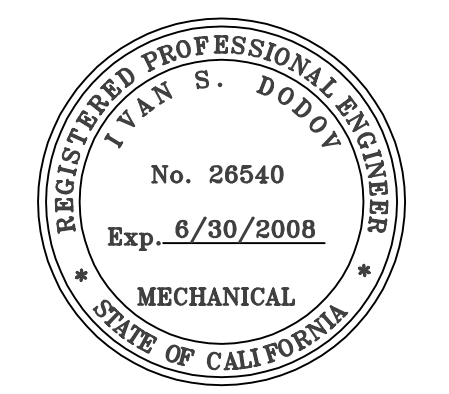


FLOOR PLAN
SCALE 1/4" = 1'-0"

HVAC

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2/26/08 PER PLAN CHECK COMMENTS

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MECHANICAL
FLOOR HVAC PLAN

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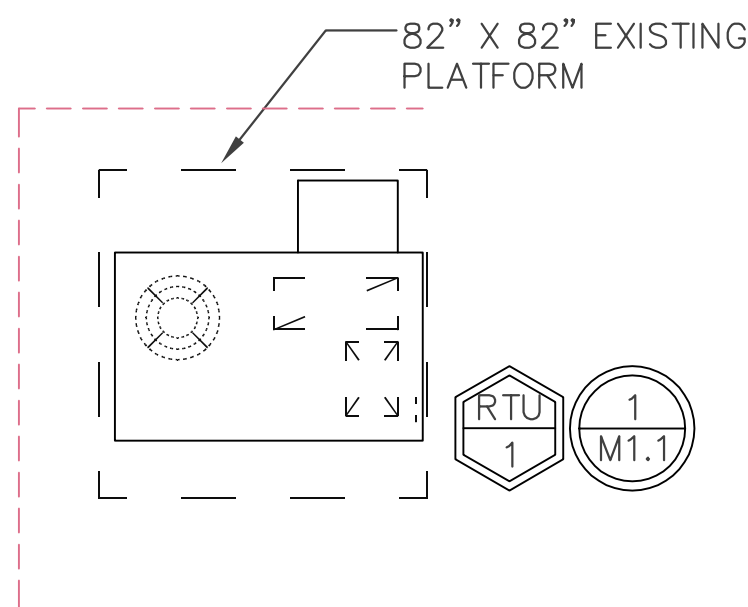
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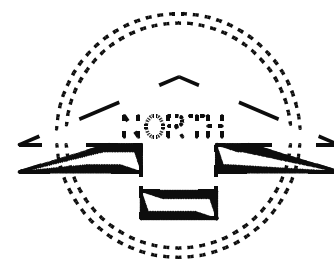
MECHANICAL ROOF PLAN

SHEET **M2.2** OF **3**



NOTES:

- 1) UTILIZE EXISTING OPENING/MECHANICAL SHAFT & PROVIDE NECESSARY DUCT TRANSITION. MOUNT THE UNIT ON THE ROOF CURB, FIELD VERIFY IF EXISTING CURB WILL SUFFICE, MODIFY AS REQUIRED.
- 2) CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPANE METER FOR THE RTU & CONNECTION TO LPG LINE.



ROOF PLAN

SCALE 1/4" = 1'-0"

H V A C